Welcome to MODELS 2013

ACM/IEEE 16th International Conference on Model-Driven Engineering Languages and Systems

September 29 through October 4, 2013

Miami Beach Resort and Spa

Miami, Florida  USA

Sponsored by:
The MODELS Trivia Challenge provides an opportunity for all MODELS attendees to participate in a trivia contest about the conference and general research areas covered by MODELS. Prizes will be awarded at the banquet (must be present to win) to the top three contestants. Scoring will be based on total number of correct answers and timestamp of submission. The printed booklet at the conference will contain the actual questions. Attendees may submit their answers at the conference.
Welcome to MODELS 2013 and Miami, Florida!

MODELS 2013 continues the MODELS tradition by providing the top forum for researchers and practitioners to meet and share experiences in software and systems modeling. With its 16th anniversary, this year’s MODELS research community is challenged to demonstrate the maturity and effectiveness of model-driven engineering in established application domains like business information or embedded systems, as well as explore its limits, by investigating new applications areas and combinations with other emerging technologies, such as cyber-physical systems, semantic web, and cloud computing.

MODELS 2013 has multiple events that provide a broader forum for reporting on scientific progress, as well as experiences and issues stemming from practical application of model-driven methods. Traditional events (e.g., Foundations/Applications track papers, Workshops, Tutorials, and Panels) represent key venues for disseminating novel ideas in modeling research. For this 2013 edition of the conference, Demonstrations and Poster sessions are formally integrated into the conference program, along with the first edition of the ACM Student Research Competition at MODELS!

In addition to the intellectual and collegial opportunities available this week at MODELS, we also invite you to take advantage of the many cultural activities that surround the venue. We are in the midst of one of the United States’ most popular beach areas (the famous “South Beach” area). As the 5th largest urban city in the USA, Miami is a major hub for culture, entertainment, arts, and fashion. Miami has recently been named one of the USA’s cleanest cities and most walkable cities. With over 14 universities and colleges in the area, Miami also is a recognized center for education and research.

On behalf of all MODELS 2013 organizers, we wish you a very informative conference with colleagues and friends, and an enjoyable visit during your time in Miami!

Jeff Gray  Antonio Vallecillo  Peter Clarke
General co-Chair  General co-Chair  Local Chair
## Organizing Committee

MODELS 2013 was made possible by the volunteer efforts of the following members of the organizing committee:

<table>
<thead>
<tr>
<th>Role</th>
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<tbody>
<tr>
<td>General Chairs</td>
<td>Jeff Gray &amp; Antonio Vallecillo</td>
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<tr>
<td>Local Chair</td>
<td>Peter Clarke</td>
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<td>Program Chairs</td>
<td>Ana Moreira (Foundation)</td>
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<td>Bernhard Schätz (Application)</td>
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<td>Industry Liaison</td>
<td>Magnus Christerson</td>
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<td>Workshop Chairs</td>
<td>Fabio Costa &amp; Eugene Syriani</td>
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<td>Tutorial Chairs</td>
<td>Jordi Cabot &amp; Jörg Kienzle</td>
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<td>Panel Chairs</td>
<td>Isidro Ramos &amp; Silvia Abrahão</td>
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<td>Demonstration Chairs</td>
<td>Yan Liu &amp; Steffen Zschaler</td>
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<td>Poster Chairs</td>
<td>Sudipto Ghosh &amp; Benoit Baudry</td>
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<td>ACM SRC Chairs</td>
<td>Ethan Jackson &amp; Davide Di Ruscio</td>
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<td>Publicity Chairs</td>
<td>James Hill &amp; Martina Seidl</td>
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<td>Publications Chair</td>
<td>Manuel Wimmer</td>
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<td>Social Media Chairs</td>
<td>Ralf Lämmel &amp; Vadim Zaytsev</td>
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<td>Educators Symposium Chairs</td>
<td>Perdita Stevens &amp; Timothy Lethbridge</td>
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<td>Doctoral Symposium Chair</td>
<td>Martin Gogolla</td>
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<td>Steering Committee Chair</td>
<td>Gregor Engels (2013)</td>
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<td>Geri Georg (2012)</td>
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<td>Student Volunteers Chairs</td>
<td>Jonathan Corley &amp; Raymond Chang Lau</td>
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<td>Web Chair</td>
<td>Robert Tairas</td>
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The organizers are grateful for the assistance of Alkenia Blackmon and Becky Lynn from IEEE; Marty Loner and Pilar Espinosa from the Miami Beach Resort; and Joe McRary and Patricia Bayona from the Greater Miami Convention and Visitors Bureau.
Plenary Sessions

Keynotes

MODELS 2013 has an exciting series of Keynote Talks planned during each of the main conference days. Each talk will be during the 8:30am session in the Regency Ballroom.

**The Magic of Software**  
Charles Simonyi  
*Intentional Software, USA*  

Wednesday, October 2, 2013

**Model-Based Development of Software Systems: A Panacea or Academic Poppycock**  
Constance Heitmeyer  
*Naval Research Laboratory, USA*  

Thursday, October 3, 2013

**Creativity vs Rigor: Informal Modeling is OK**  
Bernd Brügge  
*Technische Universität München, Germany*  

Friday, October 4, 2013

**Most Influential Paper Presentation (2003)**

*Regency Ballroom*, Thursday, October 3, 2013, 5:15pm-6:00pm

Ivan Porres will present a retrospective summary of the UML 2003 paper “Difference and Union of Models” written by himself and Marcus Alanen. This paper was chosen by the Steering Committee to be awarded the Most Influential Paper Award from 2003.
Panel

Abstraction Challenges

Regency Ballroom
Wednesday, October 2, 2013
3:30pm-5:00pm

Modeling in the software development process is intended to reduce the gap between problem understanding and software implementation through the use of models that describe complex systems at multiple levels of abstraction and from a variety of perspectives. However, there are a number of challenging issues as to how we create and use problem-level abstractions in our modeling languages.

This panel will discuss the importance of abstraction, and its role in software development and related disciplines. The questions addressed by this panel include: what are “good” abstractions, where do they come from, why do they work or not work, how do we identify, represent and evolve appropriate abstractions, how do we validate and achieve common understanding of the semantics of the abstractions, how does notation and its interaction metaphor play a role, how can we measure, test, and teach abstraction skills suitable for modeling, and what can be learned from decades of programming language design (if anything)?

Moderator:

- David Frankel, Independent Consultant, USA

Panelists:

- Don Batory, University of Texas, USA
- Michael Golm, Siemens Corporation, Corporate Technology, USA
- Constance Heitmeyer, Naval Research Laboratory, USA
- Bran Selic, Malina Software, Canada
- Perdita Stevens, University of Edinburgh, UK
# Satellite Events Overview

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<td>Valencia E&amp;W</td>
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<td>Regency Conference</td>
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<td>Miramar South</td>
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<td>Balboa</td>
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<td>Castilian</td>
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Workshop Keynotes

Sunday - September 29, 2013

- **ACESMB**: 9:00am - Madrid
  Challenges and Strategies for Safety-critical Software-reliant Systems
  Peter H Feiler, CMU/SEI
- **AMINO**: 8:45am - Regency Conference Room
  Goals, Domains, and Enterprise Architecture in the Model-Driven Organization
  Desmond D’Souza, Kinetium, Inc.
- **AMT**: 8:30am - Regency Ballroom
  Transforming the Automotive Industry
  Robert Baillargeon, Sodius
- **XM**: 8:30am - Balboa
  Agile versus MDE - Friend or Foe?
  Jon Whittle, Lancaster University
- **MDEBE**: 8:45am - Miramar North
  Tackling Model-Based Software Testing and Verification as a Search Problem
  Lionel Briand, University of Luxembourg
- **NiM-ALP**: 1:30pm - Balboa
  Continual Verification of Non-Functional Properties in Cloud-Based Systems
  Radu Calinescu, University of York

Monday – September 30, 2013

- **ME**: 8:30am - Miramar North
  Learning on the Job: Supporting the Evolution of Designs
  Bran Selic, Malina Software
- **MPM**: 8:30am - Valencia East and West
  Compositional Multi-Paradigm Models for Software Development
  Bernhard Rumpe, RWTH Aachen University

Tuesday – October 1, 2013

- **EESSMOD**: 8:30am - Miramar North
  Research-Based Innovation in Model-Driven Engineering: Project Experience and Lessons Learned
  Lionel Briand, University of Luxembourg
- **DSLFin**: 1:30pm - Miramar South
  Beyond Valuation: Past, Present and Future of DSLs for Finance
  Jean-Marc Eber, LexiFi
- **MoDeVVa**: 8:45am - Regency Ballroom
  Partial Behaviour Modelling: Foundations for Incremental and Iterative Model-Based Software Engineering
  Marsha Chechik, University of Toronto
Workshops

Sunday – September 29, 2013

All Day: 8:30am–5:00pm

- **WS1 (Regency Conference)**
  **AMINO: TowArds the Model DrIveN Organization**
  Tony Clark, Balbir Barn, Vinay Kulkarni, Ulrich Frank, Robert France, & Dan Turk

- **WS2 (Madrid)**
  **ACESMB: Model Based Architecting and Construction of Embedded Systems**
  Iulian Ober, Florian Noyrit, Susanne Graf, & Gabor Karsai

- **WS4 (Valencia East and West)**
  **Models@run.time**
  Nelly Bencomo, Robert France, Sebastian Goetz, & Bernhard Rumpe

- **WS5 (Miramar North)**
  **MDEBE: Model-Driven Engineering By Example**
  Marouane Kessentini, Houari Sahraoui, & Philip Langer

- **WSP7 (Regency Ballroom)**
  **AMT: Analysis of Model Transformation**
  Benoit Baudry, Juergen Dingel, Levi Lucio, & Hans Vangheluwe

- **WSP8 (Castilian)**
  **GeMOC: Globalization of Modeling Languages**
  Benoit Combemale, Julien De Antoni, & Robert France

Morning: 8:30am-12:00pm

- **WS3 (Balboa)**
  **XM: Extreme Modelling**
  Davide Di Ruscio, Alfonso Pierantonio, & Juan de Lara

- **WSA6 (Miramar South)**
  **MDHPCL: Model-Driven Engineering for High Performance and Cloud Computing**
  Ileana Ober, Jean-Michel Bruel, Aniruddha Gokhale, Michael Felderer, David Lugato, James Hill, & Akshay Dabholkar

Afternoon: 1:30pm-5:00pm

- **WSP9 (Balboa)**
  **NiM-ALP: Non-functional System Properties in Modeling – Analysis, Languages, and Processes**
  Simona Bernardi, Marko Boškovic, & José Merseguer
Workshops

Monday – September 30, 2013
All Day: 8:30am–5:00pm

- **WM10 (Regency Ballroom)**
  OCL, Model Constraint and Query Languages
  Jordi Cabot, Martin Gogolla, Istvan Rath, & Ed Willink

- **WM11 (Miramar North)**
  ME: Models and Evolution
  Alfonso Pierantonio & Bernhard Schätz

- **WM12 (Valencia East and West)**
  MPM: Multi-Paradigm Modeling
  Daniel Balasubramaniam, Christophe Jacquet, Edward Jones, & Tamas Meszaros

- **WM13 (Regency Conference Room)**
  MOTB: Modeling Outside the Box
  Jon Whittle, Nelly Bencomo, & Gunter Mussbacher
Workshops

Tuesday – October 1, 2013
All Day: 8:30am–5:00pm

- **WT14 (Miramar North)**
  EESSMOD: Experiences and Empirical Studies in Software Modelling
  Michel Chaudron, Marcela Genero, Lars Pareto, & Silvia Abrahão

- **WT15 (Regency Ballroom)**
  MoDeVVA: Model-Driven Engineering, Verification and Validation Integrating Verification and Validation in MDE
  Frédéric Boulanger, Michalis Famelis, & Daniel Ratiu

- **WT16 (Regency Conference Room)**
  CMA: Fourth International Workshop on Comparing Modeling Approaches
  Geri Georg, Gunter Mussbacher, Ana Moreira, Robert France, Shaukat Ali, & Jörg Kienzle

Morning: 8:30am-12:00pm

- **WTA17 (Miramar South)**
  SIMF: Semantic Information Modeling for Federation
  Cory Casanave, Sjir Nijssen, Peter Mork, Mike Bennett, & Herman Balsters

Afternoon: 1:30pm-5:00pm

- **WTP18 (Miramar South)**
  DSLFin: Domain-Specific Languages for Financial Systems
  Magnus Christerson, David Frankel, & Todd W. Schiller
Tutorials

Monday – September 30, 2013
8:30am-12:00pm
• TM1 (Miramar South): Applying Model-Driven Engineering Technologies in the Creation of Domain-Specific Modeling Languages
  Bruce Trask & Angel Roman
• TM2 (Balboa): Model Finding and Its Applications
  Lionel Briand, Mathias Soeken, & Zohaib Iqbal

1:30pm-5:00pm
• TM3 (Madrid): Understanding Complex Changes and Improving the Quality of UML and Domain-Specific Models
  Thorsten Arendt, Timo Kehrer, & Gabriele Taentzer
• TM4 (Miramar South): Empirical Research in Model Based Software Engineering
  Michel Chaudron, Marcela Genero, Silvia Abrahão, Jon Whittle, & Lars Pareto
• TM5 (Balboa): The Theory and Practice of Modeling Language Design
  Bran Selic

Tuesday – October 1, 2013
8:30am-12:00pm
• TT6 (Valencia East & West): Implementing a DSL with the Intentional Domain Workbench
  Shane Clifford & Mats Helander
• TT7 (Castillian): Feature Model Management: Smart Operations and Language Support
  Philippe Collet
• TT8 (Madrid): Modeling Software Structures with GrammarLab
  Vadim Zaytsev

1:30pm-5:00pm
• TT9 (Valencia East & West): DSL Engineering - Designing and Implementing Domain-Specific Languages
  Markus Völter
• TT10 (Madrid): UML Testing Profile – A Language for Model-based Testing
  Marc-Florian Wendland & Ina Schieferdecker
Symposia

Educators Symposium
Monday – September 30, 2013, 8:30am-5:00pm, Castilian
Chairs: Perdita Stevens and Timothy Lethbridge

- Using Model-Driven Development Tools for Object-Oriented Modeling Education
  Seiko Akayama, Kenji Hisazum, Syuhei Hiya, & Akira Fukuda
  Marion Brandsteidl, Petra Brosch, & Martina Seidl
- Evaluation of Students' Modeling and Programming
  Birgit Demuth, Sebastian Goetz, Harry Sneed, & Uwe Schmidt
- Multi-faceted Practical Modeling Education for Software Engineering
  Suraj Kothari & Jeremias Saucedo
- Assessing Software Design Skills and their Relation with Reasoning Skills
  Dave Stikkolorum, Claire Stevenson, & Michel Chaudron

Doctoral Symposium (by invitation only)
Tuesday – October 1, 2013, 8:30am-5:00pm, Balboa
Chair: Martin Gogolla

- Evaluating the Quality in Use of Domain-Specific Languages in an Agile Way
  Ankica Barisic, Universidade Nova de Lisboa, Portugal
- Concurrent and Distributed Model Transformations based on Linda
  Loli Burgueño, Universidad de Malaga, Spain
- Debugging for Model Transformations
  Jonathan Corley, University of Alabama, USA
- Model Transformation Design Patterns
  Huseyin Ergin, University of Alabama, USA
- Towards Declarative and Incremental Model Transformation
  Hamid Gholizadeh, McMaster University, Canada
- Decomposition of Test Cases in Model-Based Testing
  Marcel Ibe, Clausthal University of Technology, Germany
- Architectural Templates: Engineering Scalable SaaS Applications Based on Architectural Styles
  Sebastian Lehrig, University of Paderborn, Germany
## Conference Events Overview

### Regency Ballroom

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<td>8:30 - 10:00</td>
<td>Welcome + Opening</td>
<td>Introductory Remarks</td>
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<td>Keynote: Charles Simonyi</td>
<td>Keynote: Constance Heitmeyer</td>
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<td>10:00 - 10:30</td>
<td>Break</td>
<td>10:00 - 10:30</td>
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<td>10:30 - 12:00</td>
<td>Session Tool Support 1</td>
<td>Session Evolution 1</td>
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<td>Session Dependability</td>
<td>Session Verification</td>
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<td>Session Comprehensibility</td>
<td>Session Product Lines</td>
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<td>12:00 - 13:30</td>
<td>Lunch</td>
<td>12:00 - 13:30</td>
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<td>13:30 - 15:00</td>
<td>Session Tool Support 2</td>
<td>Session Evolution 2</td>
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<td>Session Testing</td>
<td>SRC session</td>
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<td>Demo Session 1</td>
<td>Session Semantics</td>
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<td>Panel</td>
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<td>17:15-19:00</td>
<td>SC Meeting - Miramar South</td>
<td>Most Influential Paper Session</td>
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<td>19:00 - 21:00</td>
<td>Reception and Poster Session - Ocean View Room</td>
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### Castillian/Valencia EW

### Regency Conference Room

### Madrid

### Grande Promenade

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<td>8:30 - 10:00</td>
<td>Closing+Invitation to MODELS 14</td>
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<td>Keynote: Bernd Brügge</td>
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<td>10:00 - 10:30</td>
<td>Break</td>
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<td>10:30 - 12:00</td>
<td>Session Transformation</td>
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<td>Session Model Analysis</td>
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<td>Session System Synthesis</td>
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Technical Papers
Wednesday – October 2, 2013
(Foundation (F) and Application (A); Best Paper Candidate [#])

10:30am-12:00pm
Tool Support I (Chair: Gunter Mussbacher) - Regency Ballroom

- **Industrial Adoption of Model-Driven Engineering: Are the Tools Really the Problem? (A) [#]**
  Jon Whittle, John Hutchinson, Mark Rouncefield, Håkan Burden, & Rogardt Heldal
- **Generic Model Assist (F)**
  Friedrich Steimann & Bastian Ulke
- **Adding Spreadsheets to the MDE Toolbox (F)**
  Dimitris Kolovos, Nicholas Matragkas, & Richard Paige

Dependability (Chair: Bran Selic) - Castillian/Valencia East & West

- **Model-driven Extraction and Analysis of Network Security Policies (F)**
  Salvador Martínez, Joaquín García-Alfaro, Frédéric Cuppens, Nora Cuppens-Boulahi, & Jordi Cabot
- **SafetyMet: A Metamodel for Safety Standards (F)**
  Jose Luis Vara & Rajwinder Kaur Panesar-Walawege
- **A Generic Fault Model for Quality Assurance (F)**
  Alexander Pretschner, Dominik Holling, Robert Eschbach, & Matthias Gemmar

Comprehensibility (Chair: Richard Paige) - Regency Conference Room

- **Towards an Operationalization of the “Physics of Notations” for the Analysis of Visual Languages (F)**
  Harald Störrle & Andrew Fish
- **Teaching Model-Driven Engineering from a Relational Database Perspective (F) [#]**
  Don Batory, Eric Latimer, & Maider Azanza
- **Big Metamodels are Evil (F) [#]**
  Frédéric Fondement, Pierre-Alain Muller, Laurent Thiry, Brice Wittmann, & Germain Forestier
Technical Papers  
Wednesday – October 2, 2013  
(Foundation (F) and Application (A); Best Paper Candidate [#])

1:30pm-3:00pm  
Tool Support 2 (Chair: Jon Whittle) - Regency Ballroom

- Integrating Modeling Tools in the Development Lifecycle with OSLC: A Case Study (A)  
  Maged Elaasar & Adam Neal
- Recommending Auto-Completions for Software Modeling Activities (F)  
  Tobias Kuschke, Patrick Mäder, & Patrick Rempel
- Automatically Searching for Metamodel Well-Formedness Rules in Examples and Counter-Examples (F)  
  Martin Faunes, Juan Cadavid, Benoit Baudry, Houari Sahraoui, & Benoit Combemale

Testing (Chair: Alexander Pretschner) - Castillian/Valencia East & West

- Testing M2T/T2M Transformations (F)  
  Loli Burgueño & Manuel Wimmer
- An Approach to Testing Java Implementation against its UML Class Model (F)  
  Hector Chavez, Wuwei Shen, Robert France, & Benjamin Mechling
- Automated Test Case Selection using Feature Model: An Industrial Case Study (A) [#]  
  Shuai Wang, Arnaud Gotlieb, Shaukat Ali, & Marius Liaaen
Technical Papers
Thursday – October 3, 2013
(Foundation (F) and Application (A); Best Paper Candidate [#])

10:30am-12:00pm
Evolution 1 (Chair: Benoit Baudry) - Regency Ballroom
- Customizable Model Migration Schemes for Meta-model Evolutions with Multiplicity Changes (F)
  Gabriele Taentzer, Florian Mantz, Thorsten Arendt, & Yngve Lamo
- Fine-Grained Software Evolution using UML Activity and Class Models (F)
  Walter Cazzola, Nicole Alicia Rossini, Mohammed Al-Refai, & Robert France
- Supporting the Co-Evolution of Metamodels and Constraints through Incremental Constraint Management (F)
  Andreas Demuth, Roberto E. Lopez-Herrejon, & Alexander Egyed

Verification (Chair: Rob Petit) - Castillian/Valencia East & West
- Model Checking of UML-RT Models Using Lazy Composition (F) [#]
  Karolina Zurowska & Juergen Dingel
- Behavioural Verification in Embedded Software, from Model to Source Code (F)
  Anthony Fernandes Pires, Thomas Polacsek, Virginie Wiels, & Stéphane Duprat
- Formal Verification Integration Approach for DSML (F)
  Faiez Zalila, Xavier Crégut, & Marc Pantel

Product Lines (Chair: Jean-Marc Jézéquel) - Regency Conference Room
- Composing your Compositions of Variability Models (F)
  Mathieu Acher, Benoit Combemale, Philippe Collet, Olivier Barais, Philippe Lahire, & Robert France
- Constraints: The Core of Supporting Automated Product Configuration of Cyber-Physical Systems (A)
  Kunming Nie, Tao Yue, Shaukat Ali, Li Zhang, & Zhiquiang Fan
- Defining and Validating a Multimodel Approach for Product Architecture Derivation and Improvement (A)
  Javier Gonzalez-Huerta, Emilio Insfrán, & Silvia Abrahão
Technical Papers
Thursday – October 3, 2013
(Foundation (F) and Application (A); Best Paper Candidate [#])

1:30pm-3:00pm
Evolution 2 (Chair: Gabriele Taentzer) - Regency Ballroom
- Evolution of UML Interactions Metamodel (F)
  Marc-Florian Wendland, Martin Schneider, & Øystein Haugen
- A Graph-pattern Based Approach for Meta-model Specific Conflict Detection in a General-purpose Model Versioning System (A)
  Asha Rajbhoj & Sreedhar Reddy
- On the Complex Nature of MDE Evolution (A) [#]
  Regina Hebig, Holger Giese, Florian Stallmann, & Andreas Seibel

Semantics (Chair: Juergen Dingel) - Castillian/Valencia East & West
- Simplification and Correctness of UML Class Diagrams: Focusing on Multiplicity and Aggregation/Composition Constraints (F)
  Mira Balaban & Azzam Maraee
- Formal Semantics Specification of Cyber-Physical Components Integration and Composition (F)
  Gabor Simko, David Lindecker, Tihamer Levendovszky, Sandeep Neema, & Janos Sztipanovits
- Endogenous Metamodeling Semantics for Newer Structural UML Concepts (F)
  Lars Hamann & Martin Gogolla
Technical Papers
Thursday – October 3, 2013
(Foundation (F) and Application (A); Best Paper Candidate [#])

3:30pm-5:00pm
DSMLs (Chair: Thihamér Levendovszky) - Regency Ballroom
- Computer Assisted Integration of Domain-Specific Modeling Languages using Text Analysis Techniques (F)
  Florian Noyrit, Sébastien Gérard, & François Terrier
- Towards the Notation-Driven Development of DSMLs (F)
  Laurent Wouters
- Validation of Derived Features and Well-Formedness Constraints in DSLs (F) [#]
  Oszkár Semeráth, Ákos Horváth, & Dániel Varró

Models@RT (Chair: Nelly Bencomo) - Castillian/Valencia East & West
- Self-Adaptation with End-User Preference: Using Run-Time Models and Constraint Solving (F)
  Hui Song, Stephen Barrett, Aidan Clarke, & Siobhán Clarke
- Runtime Model Based Management of Diverse Cloud Resources (A)
  Xiaodong Zhang, Xing Chen, Ying Zhang, Yihan Wu, Wei Yao, & Gang Huang
- The Semantic Web as a Software Modeling Tool: Application to Citizen Relationship Management (A)
  Borislav Iordanov, Assia Alexandrova, Syed Abbas, Thomas Hilpold, & Phani Upadrasta

Design & Architecture (Chair: Tau Yue) - Regency Conference Room
- Concern-Oriented Software Design (F)
  Omar Alam, Jörg Kienzle, & Gunter Mussbacher
- Analyzing Enterprise Models Using Enterprise Architecture-based Ontology (A)
  Sagar Sunkle, Vinay Kulkarni, & Suman Roychoudhury
- Analyzing the Effort of Composing Design Models of Large-Scale Software in Industrial Case Studies (A)
  Kleinner Farias, Alessandro Garcia, Jon Whittle, & Carlos Lucena

5:15pm-6:00pm
Most Influential Paper Award - Regency Ballroom
- Difference and Union of Models
  Ivan Porres & Marcus Alanen
Technical Papers  
Friday – October 4, 2013  
(Foundation (F) and Application (A); Best Paper Candidate [#])

10:30am-12:00pm  
Model Transformation (Chair: Steffen Zschaler) - Regency Ballroom
- Parallel Execution of ATL Transformation Rules (F)  
  Massimo Tisi, Salvador Martínez, & Hassene Choura
- Transformation of Models Containing Uncertainty (F)  
  Michalis Famelis, Rick Salay, Alessio Sandro, & Marsha Chechik
- Automated Verification of Model Transformations in the Automotive Industry (A) [#]  
  Gehan M. K. Selim, Fabian Büttner, James R. Cordy, Juergen Dingel, & Shige Wang

Model Analysis (Chair: Martin Gogolla)-Castillian/Valencia East & West
- Data-flow based Model Analysis and its Applications (F)  
  Christian Saad & Bernhard Bauer
- Contract-aware Slicing of UML Class Models (F)  
  Wuliang Sun, Robert B. France, & Indrakshi Ray
- Usability Inspection in Model-driven Web Development: Empirical Validation in WebML (A)  
  Adrian Fernandez, Silvia Abrahão, Emilio Insfran, & Maristella Matera

System Synthesis (Chair: Bernhard Schätz) - Regency Conference Room
- Model-Driven Approach for Supporting the Mapping of Parallel Algorithms to Parallel Computing Platforms (F)  
  Ethem Arkin, Bedir Tekinerdogan, & Kayhan Imre
- Compositional Synthesis of Controllers from Scenario-Based Assume-Guarantee Specifications (F)  
  Joel Greenyer & Ekkart Kindler
Demonstrations

Wednesday – October 2, 2013
1:30pm-3:10pm
Modeling Tools and Environments (Chair: Steffen Zschaler)
Regency Conference Room

- Scribbler: From Collaborative Sketching to Formal Domain Specific Models and Back Again
  Martin Vogel, Tim Warnecke, & Christian Bartelt
- Zen-RUCM: A Tool for Supporting a Comprehensive and Extensible Use Case Modeling Framework
  Gong Zhang, Tao Yue, Ji Wu, & Shaukat Ali
- clooca: Web based tool for Domain Specific Modeling
  Syuhei Hiya, Kenji Hisazumi, Akira Fukuda, & Tsuneo Nakanishi
- AToMPM: A Web-based Modeling Environment
  Eugene Syriani, Hans Vangheluwe, Raphael Mannadiar, Conner Hansen, Simon Van Mierlo, & Huseyin Ergin
- Concern-Oriented Software Design with TouchRAM
  Matthias Schöttle, Omar Alam, Abir Ayed, & Jörg Kienzle

Thursday – October 3, 2013
1:30pm-3:10pm
Analysis and Model Management (Chair: Steffen Zschaler)
Regency Conference Room

- xMOF: A Semantics Specification Language for Metamodeling
  Tanja Mayerhofer, Philip Langer, & Manuel Wimmer
- Interactive Dependency Graphs for Model Transformation Analysis
  Andreas Rentschler & Per Sterner
- Tool Support for Conflict Resolution of Models for Automated Enterprise Architecture Documentation
  Matheus Hauder, Sascha Roth, Simon Pigat, & Florian Matthes
- A Configurator for Visual Analysis of Enterprise Architectures
  Matheus Hauder, Sascha Roth, Simon Pigat, & Florian Matthes
- Demonstration of Runtime Model Based Management of Diverse Cloud Resources
  Xiaodong Zhang, Xing Chen, Ying Zhang, Yihan Wu, Gang Huang, & Qiang Lin
ACM Student Research Competition
Monday – September 30, 2013
Sponsored by Microsoft Research

7:00pm-9:00pm
Ocean View Room (with Reception)

Graduate Students

- Domain Specific Analysis of Statemachine Models of Reactive Systems
  Karolina Zurowska, Queen’s University, Canada
- Using fUML as Semantics Specification Language in Model Driven Engineering
  Tanja Mayerhofer, Vienna University of Technology, Austria
- Semantic Specifications for Domain-Specific Modeling Languages
  Gabor Simko, Vanderbilt University, USA
- Iterative Evaluation of Domain-Specific Languages
  Ankica Barisic, Universidade Nova de Lisboa, Portugal
- Concern Driven Software Development
  Omar Alam, McGill University, Canada
- A Framework to Specifying and Analyzing Temporal Properties in UML Class Models
  Mustafa Al Lail, Colorado State University, USA

Undergraduate Student

- Complexity- and Performance Analysis of Different Controller Implementations on a Soft PLC
  Robert Feldmann, Technion, Israel
Posters
Wednesday – October 2, 2013

7:00pm-9:00pm
Ocean View Room (with Reception)

- **Automated Product Line Methodologies to Support Model-Based Testing**
  Shuai Wang, Shaukat Ali, & Arnaud Gotlieb

- **An Extensible Use Case Modeling Approach for Cyber-Physical Systems (CPSs)**
  Gong Zhang, Tao Yue, Shaukat Ali, & Ji Wu

- **MDA Game Design for Video Game Development by Genre**
  Rosa Vargas, Georgina Arellano, Hector Beltran, Leopoldo Zepeda, Ricardo Quintero, & Liliana Vega

- **Towards a Search-based Interactive Configuration of Cyber Physical System Product Lines**
  Kunming Nie, Yue Tao, & Shaukat Ali

- **TractsTool: Testing MTs based on Contracts**
  Loli Burgueño, Manuel Wimmer, Javier Troya, & Antonio Vallecillo
Social Events

Satellite Reception and ACM SRC Poster Session
*Ocean View Room and Pool Area*
Monday, September 30, 2013, 7:00pm-9:00pm

Conference Reception and Poster Session
*Ocean View Room and Pool Area*
Wednesday, October 2, 2013, 7:00pm-9:00pm

Entertainment by Leon Foster Thomas (Jazz Musician and Steel Pan Virtuoso) - http://www.leonfosterthomas.com/

Conference Banquet and Awards Ceremony
*Starlight Ballroom*, Thursday, October 3, 2013, 7:00pm-9:00pm

Food and Drinks

All breaks and lunches will be held in the Grande Promenade.

Satellite and Conference attendees will be served a continental breakfast, morning and afternoon breaks, and a lunch for all days that they are registered (except Friday, when only breakfast and morning break is available; there will be no lunch on Friday).

For each of the two receptions, registered attendees will receive one drink coupon. Several food selections will be available during the reception periods.

Each banquet attendee will receive two drink coupons.

For those who indicated on their registration special meal requests, preparations will be available at meal time to address specific needs.
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IEEE/ACM 17th International Conference on Model Driven Engineering Languages and Systems
September 28th – October 3rd 2014
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MODELS 2014 Invitation

In 2014, MODELS will take place in Valencia, which is one of the most cosmopolitan and open cities in Europe, widely known for its superb weather, food and hospitality. Valencia is Spain's third largest metropolitan area with facilities to accommodate visitors attracted to the city from countries all over the world each year. With 14 technology institutes, a broad network of infrastructures and industries, and an academic system formed by 7 universities and their business parks, Valencia also is a recognized center for education and research.

We invite you to join us at this conference and to help shape the modelling methods and technologies of the future!

http://modelsconference.org/
(available late-October 2013)