Welcome to MODELS 2013

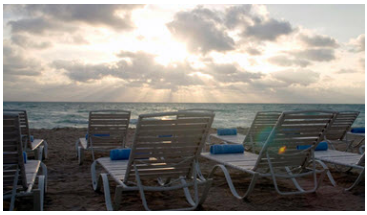
ACM/IEEE 16th International Conference on

Model-Driven Engineering Languages and Systems

September 29 through October 4, 2013

Miami Beach Resort and Spa

Miami, Florida USA



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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:

General Chairs
Jeff Gray & Antonio Vallecillo

Local Chair
Peter Clarke

Program Chairs
Ana Moreira (Foundation)
Bernhard Schätz (Application)

Industry Liaison
Magnus Christerson

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Tutorial Chairs
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Panel Chairs
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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

	Sunday AM	Sunday PM	Monday AM	Monday PM	Tuesday AM	Tuesday PM
	8:30am-12:00pm	1:30pm-5:00pm	8:30am-12:00pm	1:30pm-5:00pm	8:30am-12:00pm	1:30pm-5:00pm
Regency Ballroom	WSP7 AMT	WSP7 AMT	WM10 OCL	WM10 OCL	WT15 MoDeVVA	WT15 MoDeVVA
Miramar North	WSA5 MDEBE	WSA5 MDEBE	WM11 ME	WM11 ME	WT14 EESSMOD	WT14 EESSMOD
Valencia E&W	WS4 M@RT	WS4 M@RT	WM12 MPM	WM12 MPM	TT6 Clifford & Helander	TT9 Voelter
Regency Conference	WS1 AMINO	WS1 AMINO	WM13 MOTB	WM13 MOTB	WT16 CMA	WT16 CMA
Miramar South	WSA6 MDHPCL	RESERVED	TM1 Trask & Roman	TM4 Chaudron et al.	WTA17 SIMF	WTP18 DSLFin
Balboa	WS3 XM	WSP9 NiM-ALP	TM2 Briand et al.	TM5 Selic	ST2 DocSymp	ST2 DocSymp
Castillian	WSP8 GeMOC	WSP8 GeMOC	SM1 EdSym	SM1 EdSym	TT7 Collet	RESERVED
Madrid	WS2 ACESMB	WS2 ACESMB	RESERVED - NECSIS	TM3 Arendt et al.	TT8 Zaytsev	TT10 Wendland & Schieferdecker

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 – September30, 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 Balasubramanian, 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

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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
- **Making UML "hip": A First Experience Report on Using Modern Teaching Tools for Object-Oriented Modelling**
  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 Sauceda
- **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 | Castillian/Valencia EW | Regency Conference Room | Madrid | Grande Promenade

Time	Wednesday			
8:30 - 10:00	Welcome + Opening Keynote: Charles Simonyi			
10:00 - 10:30	Break			
10:30 - 12:00	Session Tool Support 1	Session Dependability	Session Comprehensibility	
12:00 - 13:30	Lunch			MODELS 2014
13:30 - 15:00	Session Tool Support 2	Session Testing	Demo Session 1	
15:00 - 15:30	Break			
15:30 -17:00	Panel			
17:15-19:00	**SC Meeting - Miramar South**			
19:00 - 21:00	**Reception and Poster Session - Ocean View Room**			

Time	Thursday			
8:30 - 10:00	Introductory Remarks Keynote: Constance Heitmeyer			
10:00 - 10:30	Break			
10:30 - 12:00	Session Evolution 1	Session Verification	Session Product Lines	
12:00 - 13:30	Lunch			
13:30 - 15:00	Session Evolution 2	SRC session	Session Semantics	Demo Session 2
15:00 - 15:30	Break			
15:30 -17:00	Session DSMLs	Session Models@RT	Session Design & Architecture	
17:15-18:00	**Most Influential Paper Session**			
19:00 - 21:00	**Banquet and Awards (Best Papers, Best Reviewers, ACM SRC, and Most Influential Paper) Starlight Room Roof Ballroom**			

Time	Friday			
8:30 - 10:00	Closing+Invitation to MODELS 14 Keynote: Bernd Brügge			
10:00 - 10:30	Break			
10:30 - 12:00	Session Transformation	Session Model Analysis	Session System Synthesis	

Technical Papers
Wednesday – October 2, 2013

(Foundation (F) and Application (A); Best Paper Candidate [#])

10:30am-12:00pm

Tool Support 1 (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, & Zhiqiang 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.

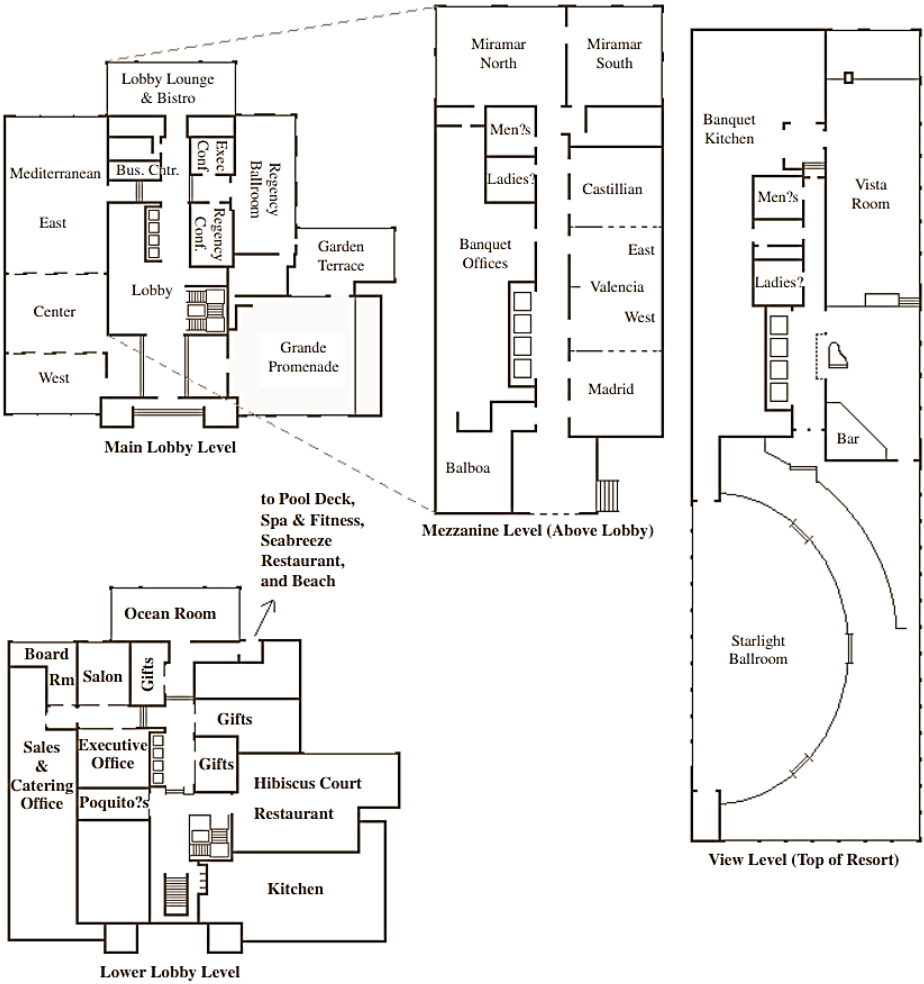
Satellite and Conference attendees will be served a continental breakfast, morning and afternoon breaks, and a lunch for all days that they are registered (except Friday, when only breakfast and morning break is available; there will be no lunch on Friday).

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.

Venue Map


Lobby Lounge & Bistro
Mediterranean
Bus. Ctr.
East
Center
West
Lobby
Exec Conf.
Regency Conf.
Regency Ballroom
Garden Terrace
Grande Promenade
Main Lobby Level
Miramar North
Miramar South
Men?s
Ladies?
Castillian
East
Valencia
West
Madrid
Banquet Offices
Balboa
Mezzanine Level (Above Lobby)
Banquet Kitchen
Men?s
Ladies?
Vista Room
Bar
Starlight Ballroom
View Level (Top of Resort)
to Pool Deck, Spa & Fitness, Seabreeze Restaurant, and Beach
Ocean Room
Board Rm
Salon
Gifts
Gifts
Sales & Catering Office
Executive Office
Poquito?s
Gifts
Hibiscus Court
Restaurant
Kitchen
Lower Lobby Level

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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)