CALL FOR PAPERS
MODEL-DRIVEN REQUIREMENTS ENGINEERING WORKSHOP AT RE 2013

Rio de Janeiro, Brazil, July 15, 2013

http://cserg0.site.uottawa.ca/modre2013

MODEL-Driven Development (MDD) is a new paradigm for software development where models are no longer simple mediums for describing software systems or only facilitating inter-team communication. In MDD, models become first-class citizens, and a software system is obtained through the definition of different models at different abstraction layers. Models of a certain abstraction layer are derived from models of the upper abstraction layer by means of automatic model transformations, providing faster and more reliable results.

MDD processes that explicitly include requirements models are rarely found as the main achievements of MDD have been related to the design and implementation levels. Nevertheless, Requirements Engineering (RE) could also benefit from model-driven techniques. For instance, model transformations may be used to ensure consistency between different kinds of requirements models (e.g., goal models, scenario models, domain models), to automatically construct initial system or architectural models from requirements (e.g., by deriving a more detailed UML model from a goal or scenario model), or to increase separation of concerns (e.g., MDD solutions may be applied more concisely to RE models with clearly separated concerns).

The third edition of the International Model-Driven Requirements Engineering (MoDRE) workshop continues to provide a forum where researchers and practitioners can discuss the challenges of MDD for RE. Building on the success of MDD for design and implementation, RE may benefit from MDD techniques when properly balancing flexibility for capturing varied user needs with formal rigidity required for model transformations as well as high-level abstraction with information richness. Reuse of requirements models becomes a distinct possibility with MDD and model transformations. Furthermore, requirements models may be used at runtime to govern system execution. MoDRE intends to identify new challenges, discuss on-going work and potential solutions, analyze the strengths and weaknesses of MDD approaches for RE, foster stimulating discussions on the topic, and provide opportunities to apply MDD approaches for RE. In this edition of the workshop, the emphasis is on the topics of *requirements reuse* and *requirements@runtime*.

The workshop is co-located with the 21st IEEE International Requirements Engineering Conference (RE'13) in Rio de Janeiro, Brazil, in July 2013. Accepted papers will become part of the workshop proceedings and will be submitted for inclusion into the IEEE Digital Library.

Important Dates (all deadlines are 23:59:59 Pago Pago, American Samoa time)

Deadline for abstract submission:	Monday, April 22, 2013
Deadline for paper submission:	Monday, April 29, 2013
Notification sent to authors:	Friday, May 24, 2013
Deadline for submission of camera-ready paper:	Friday, June 7, 2013
Deadline for submission of workshop presentation:	Monday, July 8, 2013
Workshop:	Monday, July 15, 2013

Topics of Interest

The main themes of the Model-Driven Requirements Engineering Workshop at RE 2013 are:

- Achieving ***reuse of requirements models*** with MDD and model transformations
- ***requirements@runtime***: using requirements models at runtime to govern system execution
  - Establishing and maintaining causal links between requirements models and runtime models
  - Simulation of requirements
  - Monitoring of model-based requirements of context-sensitive, self-aware, and self-adaptive systems

Nevertheless, submissions are welcome in all general workshop topics including (but not limited to) the following:

- Modelling languages and metamodels for requirements engineering approaches
- Modelling languages and metamodels for supporting separation of concerns in requirements models in the context of model transformations
- Ensuring synchronicity and consistency of different requirements models using model transformations
- Automatic analysis of requirements models using model transformations (e.g., metrics calculations)
- Automatic generation of tools for requirements engineering using MDD (e.g., Ecore + EMF/TEF)
- Model Transformations
  - General transformation schemes or guidelines which allow the development of automatic model transformations for RE
  - Language features required to support transformations at the requirements level
  - Automation of transformation involving requirements models as input or output
  - Transformations between requirements models at different abstraction layers
  - Traceability and correctness of model transformations involving requirements models
- Evaluation of model-driven RE
- Model-driven requirements engineering in industry
  - Industry problems and practices
  - Success stories about adopting model-driven requirements engineering in industry
  - Industrial empirical studies

Submission Guidelines, Review Process, and Publication

PARTICIPANTS are invited to submit original research papers with a length of eight (8) to ten (10) pages or original position papers with a length of four (4) to five (5) pages. Papers must conform to the IEEE CS template (http://www.computer.org/portal/web/cscps/formatting). Submissions must be in pdf format via EasyChair:

https://www.easychair.org/conferences/?conf=modre2013

All submissions will be reviewed by at least three members of the program and organizing committee for quality and relevance. Accepted papers will become part of the workshop

proceedings and will be submitted for inclusion into the IEEE Digital Library. Authors who do not register for the workshop prior to the event will be unable to have their work considered as part of the workshop.

Workshop Attendance

THE workshop is open to the public but priority will be given to authors of workshop papers. Non-authors are strongly advised to contact the workshop organizers to express their interest to attend the workshop.

Organizing Committee

Ana Moreira, Associate Professor, Universidade Nova de Lisboa, Portugal
Gunter Mussbacher, Postdoctoral Fellow, University of Ottawa, Canada
João Araújo, Assistant Professor, Universidade Nova de Lisboa, Portugal
Pablo Sánchez, Senior Lecturer, Universidad de Cantabria, Spain
Nelly Bencomo, Marie Curie Fellow, INRIA, France

Program Committee

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Carme Quer, University of Barcelona, Spain
Mehrdad Sabetzadeh, University of Luxembourg, Luxembourg
Pete Sawyer, Lancaster University, UK
Antonio Vallecillo, Universidad de Málaga, Spain
Hans Vangheluwe, University of Antwerp, Belgium
Manuel Wimmer, Technische Universität Wien, Austria
Tao Yue, Simula Research Laboratory, Norway
Steffen Zschaler, King's College London, UK