CALL FOR PAPERS
MODEL-DRIVEN REQUIREMENTS ENGINEERING WORKSHOP AT RE 2011

Trento, Italy, August 29, 2011

http://cserg0.site.uottawa.ca/modre2011

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).

This inaugural Model-Driven Requirements Engineering (MoDRE) workshop provides a forum to 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. MoDRE intends to identify new challenges, discuss on-going work and potential solutions, and analyze the strengths and weaknesses of MDD approaches for RE with the help of a case study problem that is used during the workshop to stimulate discussions and to apply MDD approaches for RE.

The workshop is co-located with the 19th International Requirements Engineering Conference (RE'11) in Trento, Italy, in August/September 2011. Accepted papers will become part of the workshop proceedings and published in the IEEE Digital Library.

Important Dates

Deadline for abstract submission:	Wednesday, June 1, 2011, 23:59:59, Apia, Samoa time
Deadline for paper submission:	Wednesday, June 8, 2011, 23:59:59, Apia, Samoa time
Notification sent to authors:	Wednesday, July 6, 2011, 23:59:59, Apia, Samoa time
Deadline for submission of camera-ready version of paper:	Monday, August 22, 2011, 23:59:59, Apia, Samoa time
Deadline for submission of workshop presentation:	Thursday, August 25, 2011, 23:59:59, Apia, Samoa time
Workshop:	Monday, August 29, 2011

Topics of Interest

THE topics of the Model-Driven Requirements Engineering Workshop at RE 2011 include (but are not limited to) the following:

- Modelling languages and metamodels for requirements engineering approaches
- Modelling languages and metamodels for supporting separation of concerns (e.g., features, goals, aspects) in requirements models in the context of model transformations
- Automatic generation of tools for requirements engineering using MDD (e.g., Ecore + EMF/TEF)
- Ensuring synchronicity and consistency of different requirements models using model transformations
- Automatic analysis of requirements models using model transformations (e.g., metrics calculations)
- 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 models 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

Workshop Format

THE format of the workshop reflects the goals of the workshop: constructive feedback for accepted workshop papers, collaboration, and community building. The workshop will be highly interactive with a few presentations in the morning followed by intense group work. Participants will work on a case study problem in small groups, formed based on their specific interests. As a pre-workshop activity, the participants are encouraged to make themselves familiar with the models of the MoDRE case study problem. The group work will be focused on making tangible progress by identifying possible solutions to the MoDRE case study problem, thus furthering problem understanding as well as providing practical examples and motivation for discussions. The anticipated outcome is an extended set of models for the MoDRE case study problem, a better understanding of the relationships of these early models for the MoDRE case study problem, and a list of hot research topics for the MoDRE community. The short presentations as well as the models created during the workshop and discussion points/hot research topics identified during the workshop will be posted on the workshop website after the workshop.

Submission Guidelines and Review Process

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=modre2011

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

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, Universidade Nova de Lisboa, Portugal
João Araújo, Universidade Nova de Lisboa, Portugal
Gunter Mussbacher, Carleton University, Canada
Pablo Sánchez, Universidad de Cantabria, Spain

Program Committee

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