CALL FOR PAPERS
MODEL-DRIVEN REQUIREMENTS ENGINEERING WORKSHOP AT RE 2012

Chicago, Illinois, USA, September 24, 2012

http://cserg0.site.uottawa.ca/modre2012

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 second edition of the 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. MoDRE intends to identify new challenges, discuss on-going work and potential solutions, analyze the strengths and weaknesses of MDD approaches for RE, and survey existing literature on MDD for RE to stimulate discussions during the workshop.

The workshop is co-located with the 20th International Requirements Engineering Conference (RE'12) in Chicago, Illinois, USA, in September 2012. Accepted papers will become part of the workshop proceedings and published in the IEEE Digital Library.

Important Dates (all times are Pago Pago, American Samoa time)

Deadline for abstract submission:	Thursday, May 24, 2012, 23:59:59
Deadline for paper submission:	Thursday, May 31, 2012, 23:59:59
Notification sent to authors:	Friday, July 13, 2012, 23:59:59
Deadline for submission of camera-ready paper:	Wednesday, August 1, 2012, 23:59:59
Deadline for submission of workshop presentation:	Wednesday, September 19, 2012, 23:59:59
Workshop:	Monday September 24, 2012

Topics of Interest

THE topics of the Model-Driven Requirements Engineering Workshop at RE 2012 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 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

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 join discussion groups, formed based on their specific interests. The group work will include a survey component to clearly define the current state of MoDRE research for a specific topic and to identify potential ideas for future research. The anticipated outcome is a better understanding of the MoDRE research landscape and a list of hot research topics for the MoDRE community. The short presentations, the survey results from the group work, 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=modre2012

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

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

Program Committee

Alfonso Pierantonio, University of L'Aquila, Italy
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