

Call for Papers

Model-Driven Web Engineering 2007 (MDWE'07)

Workshop at ICWE 2007

<http://wise.vub.ac.be/mdwe2007/>

Como, Italy, July 16-20

Call for Papers

Model-Driven Software Development (MDS) advocates the use of models and model transformations as the key artefacts in all phases of development, from system specification and analysis, to design and testing. Each model usually addresses one concern, independently from the rest of the issues involved in the construction of the system. Thus, the basic functionality of the system can be separated from its final implementation; the business logic can be separated from the underlying platform technology, etc. The transformations between models enable the automated implementation of a system right from the different models defined for it.

Web Engineering is a specific domain in which Model-Driven Software Development (MDS) can be successfully applied. Existing model-based Web engineering approaches already provide excellent methods and tools for the design and development of most kinds of Web applications. They address different concerns using separate models (navigation, presentation, workflows, etc.) and come with model compilers that produce most of the application's Web pages and logic based on these models. However, most of these Web Engineering proposals do not fully exploit all the potential benefits of MDS, such as complete platform independence, model transformation, and metamodelling.

Recently, the MDA initiative has introduced a new approach for organizing the design of an application into different models so portability, interoperability and reusability can be obtained through architectural separation of concerns. MDA covers a wide spectrum of topics and issues (MOF-based metamodels, UML profiles, model transformations, modelling languages and tools, etc.). In another camp, Software Factories provide concepts and resources for the model-based design of complex applications. At the same time, we see a trend towards the incorporation of emerging technologies like the Semantic Web and (Semantic) Web Rule Languages, which aim at fostering application interoperability. However, the effective integration of all these techniques with the already existing model-based Web Engineering approaches is still unresolved.

The workshop will provide – in the same way as the previous MDWE'05 and MDWE'06 did – a discussion forum where researchers and practitioners on model-driven development of Web applications can meet, disseminate and exchange ideas and problems, identify some of the key issues related to these topics, and explore together possible solutions and future works.

Topics for the workshop

The main goal of this workshop is to offer a forum to exchange experiences and ideas related to model-driven software development in the Web Engineering field. Accordingly, we will invite submissions from both academia and industry about any of the following topics of interest:

- Model Driven Architecture (MDA) in the context of Web application development
- Other model-driven approaches (e.g., Software Factories) for the development of Web systems
- Potential problems or limitations of MDS in Web Engineering
- Metamodels for model-driven approaches used for Web application development
- UML profiles for Web applications
- Web systems software architecture modelling in MDS approaches
- Model-driven code generation for Web applications
- Model transformations in the context of model-driven approaches used for Web application development
- Model-to-model and model-to-code transformations
- Model transformation languages
- Interoperability models for Web applications and resources (Web pages, Web services, portlets, distributed components, etc.)

- Tools for model-driven Web development
- Model-driven quality analysis of Web applications
- Maintenance, evolution and management of model-driven generated Web systems
- Model-driven approaches to design distributions aspects in Web systems
- Use of Semantic Web-based approaches in model-driven Web design

Submission Format and Procedure

Paper submissions should be formatted according to the LNCS guidelines and must not be longer than 15 (fifteen) pages and include the authors' name, affiliation, and contact details. They should be submitted using the EasyChair review system through the MDWE'07 Workshop website (<http://wise.vub.ac.be/mdwe2007/>) before April 14, 2007. All submissions will be formally reviewed by at least two reviewers.

Authors will be notified of acceptance by May 13, 2007 and camera-ready versions of the workshop papers need to be due on May 30, 2007. At least one author of accepted papers should register for the conference and participate in the workshop.

Workshop proceedings will be published with ISSN, both in paper and electronically. Workshop papers will be made available on-line to the participants at least one week before the workshop. In addition, the best papers will be invited to send an extended version of the paper to a journal in a special issue on the topic on Model-Driven Web Engineering.

Important Dates

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| Paper submission | April 14, 2007 |
| Notification of acceptance | May 13, 2007 |
| Camera-ready version due | May 30, 2007 |
| Workshop date | July 16 - 20, 2007 |

Workshop Organizers

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| Antonio Vallecillo | ETSI Informática, University of Málaga, Spain, av@lcc.uma.es |
| Nora Koch | Ludwig-Maximilian Universität München and FAST GmbH, Germany, kochn@pst.ifi.lmu.de (main contact) |
| Geert-Jan Houben | Vrije Universiteit Brussel, Belgium, and Technische Universiteit Eindhoven, The Netherlands, Geert-Jan.Houben@vub.ac.be |

Program Committee

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|-----------------------|--|
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| Olga De Troyer | Vrije Universiteit Brussel, Belgium |
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