

IEEE CSMR 07- Workshop on Model-Driven Software Evolution (MoDSE2007)

<http://www.sciences.univ-nantes.fr/MoDSE2007/>

Amsterdam, 20th March 2007

Summary Description

Background

This session is a workshop focused on the pros and cons of model-driven software evolution. The main objective is to explore how model-driven engineering (MDE) can assist with the software evolution process. The evolution of existing software systems is inevitable if these systems are to survive. On the other hand, this evolution needs to be controlled and managed to restrict increasing complexity and decreasing quality. MDE provides the means of accomplishing just that in a systematic manner. Key topics of the workshop are:

- using models, metamodels and languages for specifying software change and enhancement
- transforming models of change into actual code changes
- continual evolution in terms of restructuring, refactoring and migrating software
- evolution and co-evolution of models
- verification, validation and testing of evolving models
- using proven design patterns to propagate change
- ensuring consistency, dealing with inconsistencies, compliance checking
- process models and tools for software evolution
- teaching model-driven software evolution
- industrial experience in evolving complex software systems in the field

The goal of the workshop is to promote industrial and research collaboration in the pursuit of better methods for evolving complex software systems. Researchers and practitioners should have the possibility of presenting their current work and innovative solutions to this extremely difficult task. The emphasis is on sharing experience. Therefore, persons working on real systems are encouraged to participate and to discuss their problems, techniques and tools related to the domain of model driven software maintenance and evolution. This workshop is being supported by the ERCIM Working Group on Software Evolution, a community of researchers, dedicated to the study of formalisms, languages, tools and techniques to support software engineers in the evolution of large and complex software systems (see <http://w3.umh.ac.be/evol>).

Programme

- Selim Ciraci, Pim van den Broek, Mehmet Aksit: A Constructive Approach To Software Evolution
- Thomas Goldschmidt, Jochen Winzen, Ralf Reussner: Evaluation of Maintainability of Model-driven Persistency Techniques
- Boris Gruschko, Dimitrios S. Kolovos, Richard F. Paige: Towards Synchronizing Models with Evolving Metamodels
- Mohamed Nadhmi Miladi, Mohamed Jmaiel, Mohamed hadj Kacem: A UML Profile and a FUJABA PlugIn for modelling dynamic software architectures

- Arie van Deursen, Eelco Visser, Jos Warmer: Model-Driven Software Evolution: A Research Agenda
- Harry M. Sneed: The Drawbacks of model-driven Software Evolution

Special session organisers

Session Chair:
Nantes, France

Dalila Tamzalit, *University of*

Programme Committee members

Arcelli Francesca (University of Milano , Italy)
Balasubramaniam Dharini (University of Saint-Andrews, UK)
Bézivin Jean (University of Nantes, France)
Chaudron Michel (Eindhoven University of Technology, the Netherlands)
Cuesta Carlos (University of Rey Juan Carlo, Spain)
Favre Jean-Marie (IMAG, France)
Gruhn Volker (University of Leipzig, Germany)
Janssens Dirk (University of Antwerp, Belgium)
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Visser Eelco (Delft University of Technology, the Netherlands)
Warmer Jos (Ordina, the Netherlands)
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