

Proceedings of the Third International Workshop on Models and Model-driven Methods for Service Engineering - 3M4SE 2012, Beijing, China, September 10, 2012

Held in conjunction with the 16th IEEE International Enterprise Computing Conference - EDOC 2012

Marten van Sinderen, Luís Ferreira Pires, Maria-Eugenia Iacob
University of Twente
Enschede, The Netherlands
{m.j.vansinderen, l.ferreirapires, m.e.iacob}@utwente.nl

I. PREFACE

Recent developments in metamodeling and model transformation techniques have led to increasing adoption of model-driven engineering practices. The increase in interest and significance of the model-driven approach has also accelerated its application in the development of large distributed IT systems to support collaborative enterprises in developing and exchanging services. Shifting attention from source code to models permits enterprises to focus on their core concerns, such as business processes, services and collaborations, without being forced to simultaneously consider the underlying technologies. Different concerns are typically addressed by different models, with transformations between the models and ultimately to the source code. Although the model-driven approach offers theoretical benefits for the development, maintenance and evolution of enterprise computing systems and corresponding service-oriented solutions, a number of issues for the practical application of the approach still exist. In order to solve these issues further advances in models (business goals, pragmatic interoperability, semantic interoperability) and model-driven methods (design concepts, languages, metamodels, profiles, specification frameworks) are necessary.

The Third International Workshop on Models and Model-driven Methods for Service Engineering -3M4SE 2012- aims at helping the convergence of research on model-driven development and practical application of the model-driven approach in the area of enterprise computing and service engineering. The workshop addresses questions with respect to the requirements on, concepts for, properties of and experience with models and model-driven methods for service engineering in the area of enterprise computing. A special focus has been on the combined application of model-driven and semantic approaches in the different phases of the service lifecycle.

This section of the volume contains the proceedings of the 3M4SE 2012 workshop, held on September 10, 2012, in Beijing, China, in conjunction with the 16th IEEE International EDOC Conference on Enterprise Computing,

EDOC 2012. Four papers were selected for oral presentation and publication, based on a thorough review process, in which each paper was reviewed by several experts in the field.

The selected papers present novel contributions concerning the following subjects:

- An approach for the formalization of IT audit management processes taking into consideration the most important frameworks of the area, and using the Business Process Model Notation (BPMN).
- A two-level approach in which a domain ontology addressing ontological concerns is used as a starting point for the definition of an information model, according to a certain information demand. This approach facilitates the identification of information modeling concerns that arise from differences in information demand and from the various means to observe or measure properties, identify, name and refer to entities, and keep track of history and time.
- A modeling approach that allows security policies to be formulated in such a way that (1) they are understandable by all relevant stakeholders, and (2) can be semi-automatically transformed into runtime enforcement mechanisms.
- An evaluation framework of visualization tools to support EA analysis activities. The framework is based on a set of visualization-related or EA-specific requirements, and aims at achieving cognitive effectiveness favoring the broader use of visual languages, and enhancing the semantics of EA visualizations.

We would like to take this opportunity to express our gratitude to all people who contributed to the 3M4SE 2012 workshop. We thank the authors for submitting content, which triggered valuable information exchange and stimulating discussions; we thank the reviewers for providing useful feedback to the submitted content, which undoubtedly helped the authors to improve their work; and we thank the attendants for expressing interest in the content and initiating relevant discussions. Finally, we are grateful

for having the possibility to have 3M4SE being held in conjunction with the EDOC 2012 conference, and we thank the EDOC 2012 organization committee for their support.

II. ORGANISATION

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