

Message from the 3M4SE 2014 Workshop Chairs

Held in conjunction with the 18th IEEE International Enterprise Computing Conference - EDOC 2014

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 these 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 Fifth International Workshop on Models and Model-driven Methods for Service Engineering -3M4SE 2014- 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 2014 workshop, held on September 1-2, 2014, in Ulm, Germany, in conjunction with the 18th IEEE International EDOC Conference on Enterprise Computing, EDOC 2014. Three 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:

- “ODaaS: Towards the model-driven engineering of open data applications as data services,” authored by Segura, Sánchez and De Lara, presents an adaptation of the Data-as-a-Service paradigm for the construction of open data applications. The adaptation is based on multi-level modeling to characterize the data in different domains, and it supports on-demand data loading through domain injectors to map a given format into a semantically rich model. The data services are accessed through a REST API that exposes the data model described by the data domains.
- “Patterns for value-added services illustrated with SEAM,” authored by Tapandjieva, Gopal, Grossan and Wegmann, addresses the problem of using services to increase the value to the business. The study essentially proposes a modelling approach for service-oriented architectures based on several design patterns in which a distinction is made between “service offering” and “service implementation”, and which allows capturing of values and motivations.
- “Towards orthographic viewpoints for enterprise architecture modeling,” authored by Atkinson and Tunjic, compares the viewpoint framework of one well known Enterprise Architecture Modeling approach, Archimate, to the Orthographic Modeling approach from the perspective of dimension-based view identification and selection. After identifying weaknesses in Archimate’s viewpoint framework an approach is developed to overcome them.

We would like to take this opportunity to express our gratitude to all people who contributed to the 3M4SE 2014 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 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 2014 conference, and we thank the EDOC 2014 organization committee for their support.

II. ORGANISATION

Workshop Chairs

Marten van Sinderen (University of Twente, The Netherlands)

Luís Ferreira Pires (University of Twente, The Netherlands)

Maria-Eugenia Iacob (University of Twente, The Netherlands)

Programme Committee

Colin Atkinson (University of Mannheim, Germany)

Mariano Belaunde (France Telecom R&D, France)

Antonio Brogi (University of Pisa, Italy)

Cleber Ricardo Guareis de Farias (University of São Paulo, Brazil)

Slimane Hammoudi (ESEA, France)

Yanbo Han (Institute of Computing Technology, China)

Peter F. Linington (University of Kent, UK)

Oscar Pastor Lopez (Universidad Politecnica de Valencia, Spain)

Richard Soley (Object Management Group, USA)