

Preface

After a decade, Model-Driven Engineering (MDE) has reached the maturity needed to support software development within complex domains and to allow building large-scale systems. Recently established theoretical foundations and emerging tool support have been key to this maturation. MDE supports the various activities of software development: high-level requirements elicitation, domain and problem specification, validation and verification, evolution and maintenance, etc.

The correctness of models and the associated model transformations is crucial to the success of any model-driven approach. These proceedings gather contributions submitted to and presented in two workshops which address this crucial issue in two distinct ways:

- The Fifth International Workshop on Verification of Model Transformations (VOLT) is concerned with *a posteriori* techniques for correctness, where models and/or transformations are checked to formally prove some relevant notion of correctness; while
- The Second International Workshop on Patterns in Model Engineering (PAME) focuses on *a priori* techniques, such as the discovery and reuse of repetitive idioms, either structural or behavioral (or even both), to properly guide the specification of models and transformations and improve their quality.

Both workshops were held as a half-day event of the MODELS (Model Driven Engineering Languages and Systems) Conference on the 2nd October 2016 in Saint-Malo, France. For VOLT, five papers were accepted after a rigorous review process, addressing various topics such the verification of bidirectional transformations, reducing the burden of formal testing, and the emerging field of real-time transformations. For PAME, three papers in the domains of model-checking, user interfaces and UML security were accepted after a thorough review, and discussed during the Workshop.

As PAME and VOLT organisers, we would like to warmly thank the MODELS 2016 Organizing Committee for giving the opportunity to host these workshops, and more specifically the Workshop Chairs Houari Sahraoui (University of Montral, Canada) and Manuel Wimmer (Vienna University of Technology, Austria), who were always helpful and supportive for the many last-minutes changes. We also warmly thank the many participants who contributed to animate the discussions with their remarks, relevant questions and personal experience sharing. We cannot finish without being deeply grateful to the many reviewers and both Program Committees, who

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