

Preface

The interest in integrating Ontologies and Software Engineering has gained more attention with commercial and scientific initiatives. The Semantic Web Best Practice and Deployment Working Group (SWBPD) in W3C included a Software Engineering Task Force (SETF) to explore how Semantic Web and Software Engineering can cooperate. The Object Management Group (OMG) has an Ontology Platform Special Interest Group (PSIG) aiming at formalizing semantics in software by knowledge representation and related technologies. The concrete results of such initiatives are the specification of the OMG Ontology Definition Metamodel, the OWL2 Metamodel, the introduction to Ontology Driven Architectures and a Semantic Web Primer for Object-Oriented Software Developers.

Nevertheless, as MDE spreads, disciplines like model transformation, domain specific languages (DSLs) and traceability become essential in order to support different kinds of models in an model driven environment. Understanding the role of ontology technologies like knowledge representation, automated reasoning, dynamic classification and consistence checking in these fields is crucial to leverage the development of such disciplines.

The TWOMDE 2009, affiliated with the 12th International Conference on Model Driven Engineering Languages and Systems (MoDELS2009), brought together researchers and practitioners from the modeling community with experience or interest in MDE and in Knowledge Representation to discuss about: (1) how the scientific and technical results around ontologies, ontology languages and their corresponding reasoning technologies can be used fruitfully in MDE; (2) the role of ontologies in supporting model transformation; (3) and how ontologies can improve designing domain specific languages.

The objective of the workshop was: (1) to present success cases of integrated approaches; (2) to present state-of-the-art researches covering ontologies in MDE; (3) and to encourage the modeling community to explore different aspects of ontologies.

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