Abstract

The Model Quality Plan (MQP) approach provided by us allows for the systematic and efficient development of quality plans that serve as a basis for the assessment of software models. MQP emphasizes the *context* of a software model as a major factor of influence for the whole quality planning activity. In order to adjust a quality plan to project specific requirements, quality goals are derived from a characterization of that context. We achieve a differentiated description of quality goals by introducing structured goals and questions in combination with a defined quality model. Afterwards, metrics and indicators are identified for checking the fulfillment of the quality goals. The result of our approach consists of a context sensitive quality plan for software models.

Conceptually, we combine a metamodel for formulating relevant contents, a process that serves as a guideline for defining quality plans, and a rule concept for packaging and reusing experience into an integrated framework.

We show its feasibility by three case studies that include a quality plan for analysis models, design models, and test models, respectively. For that, we provide tool support for the definition and application of quality plans.

Quality of software models, analytical quality assurance, MQP, quality plan, context, quality model, indicator, metric, measure