

Assembly Techniques for Method Engineering

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Abstract. As projects for developing information systems are getting larger and more complicated, we need to have more advanced development methods suitable for every development situation. Method engineering is the discipline to construct new methods from parts of existing methods, called method fragments. To achieve this objective, we need to clarify how to model the existing methods and how to assemble method fragments into new project-specific methods, so-called situational methods. Especially, to produce meaningful methods, we should impose some constraints or rules on method assembly processes. In this paper, we propose a framework for hierarchical method modelling (meta-modelling) from three orthogonal dimensions: perspectives, abstraction and granularity. According to each dimension, methods and/or method fragments are hierarchically modelled and classified. Furthermore, we present a method assembly mechanism and its formalization as a set of rules. These rules are presented in first order predicate logic and play an important role in the assembly process of meaningful methods from existing method fragments. The benefit of our technique is illustrated by an example of method assembly, namely the integration of the Object Model and Harel's Statechart into Objectcharts.

1 Introduction

The size and complexity of projects for developing information systems are becoming larger and more complicated. Therefore, development methods and supporting tools turn one of the most significant key factors to achieve great success of development projects. Until now, many methods such as structured analysis/design [De Marco 78] and object-oriented analysis/design [Rumbaugh91] have been proposed and many textbooks have been published. The information-technology industry is putting the existing methods and corresponding supporting tools into practice in real development projects. However, much time and effort is spent on applying the methods effectively in these projects. One of the reasons is that contemporary methods are too general and includes some parts, which do not fit to the characteristics of real projects and their contexts. To enhance the effect of methods, for each of real projects, we need to adapt the methods or construct the new ones so that they can fit to the project.

Method Engineering, in particular Situational Method Engineering [Harmsen 94, Brinkkemper 96] is the discipline to build project-specific methods, called *situational methods*, from parts of the existing methods, called *method fragments*. This technique is coined *method assembly*. In fact, many methods can be considered to be the result

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