

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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Designing Complex Products with Systems Engineering Processes and Techniques Vivek D. Bhise, 2023-02-16 Completely revised including six new chapters this new edition presents a more comprehensive knowledge of issues facing developers of complex products and process management It includes more tools for implementing a Systems Engineering approach to minimize the risks of delays and cost overruns and helps create the right product for its customers Designing Complex Products with Systems Engineering Processes and Techniques Second Edition highlights how to increase customer satisfaction quality safety and usability to meet program timings and budgets using a Systems Engineering approach It provides decision making considerations and models for creating sustainable product design and describes many techniques and tools used in product development and the product life cycle orientation The book also offers techniques used in Design for Manufacturing Design for Assembly and product evaluation methods for verification and validation testing Many new examples case studies six new chapters and updated program and data charts held on our website are offered The book targets practicing engineers engineering management personnel product designers product planners product and program managers in all industrialized and developing countries In addition the book is also useful to undergraduate graduate students and faculty in engineering product design and product project and program management

Modern Methods of Construction Design Ladislav Ševčík, Petr Lepšík, Michal Petrů, Ivan Mašín, Rudolf Martonka, 2014-04-02 This book has been created on the basis of contributions to the 54th International Conference of Machine Design Departments that was held for the 60th anniversary of Technical University of Liberec This international conference which follows a tradition going back more than 50 years is one of the longest running series of conferences held in central Europe dealing with methods and applications in machine design The main aim of the conference was to provide an international forum where experts researchers engineers and industrial practitioners managers and Ph D students could meet share their experiences and present the results of their efforts in the broad field of machine design and related fields The book has seven chapters which focus on new knowledge of machine design optimization tribology experimental methods and measuring engineering analyses and product innovation Authors presented new design methods of machine parts and more complex assemblies with the help of numerical methods such as FEM Research measurements and studies of new materials including composites for energy efficient constructions are also described The book also includes solutions and results useful for optimization and innovation of complex design problems in various industries

Advances in Occupational, Social, and Organizational Ergonomics Gavriel Salvendy, Waldemar Karwowski, 2010-06-17

Worldwide the attention for health innovation and productivity is increasing The need for knowledge and its applications is large and this book contributes to knowledge development as well as its application The content varies from the effect that a new office interior has on its occupants to the most efficient design for a glove It examines topics as diverse as the facilitation of human interaction through workplace design and the improvement of virtual reality applications Its 90 articles represent 24 countries on five continents **Handbook of Manufacturing Engineering, Second Edition - 4 Volume Set** Richard Crowson, Jack Walker, 1996-07-17 Provides single source coverage on the full range of activities that meet the manufacturing engineering process including management product and process design tooling equipment selection facility planning and layout plant construction materials handling and storage method analysis time standards and production control The text examines every topic involved with product and factory development parts fabrication and assembly processes

Instructions to Boards of Examiners Concerning Applications, Methods of Rating Unassembled Examinations, and Establishing Registers United States Civil Service Commission, 1926 *Power and The Engineer*, 1922 **U.S. Government Research & Development Reports**, 1965 *Manufacturing Cost Policy Deployment (MCPD) and Methods Design Concept (MDC)* Alin Postecă, Shigeyasu Sakamoto, 2017-03-27 Providing a reasonable level of profitability through productivity is and will remain one of the fundamental tasks of the management teams of any production company Manufacturing Cost Policy Deployment MCPD and Methods Design Concept MDC The Path to Competitiveness contains two new methodologies to improving the productivity and profitability of production systems that continuously increase competitiveness Manufacturing Cost Policy Deployment MCPD and Methods Design Concept MDC Both MCPD and MDC are the result of long time synthesis and distillation being implemented successfully totally or partially in many companies The MCPD system developed by Alin Postecă is a manufacturing cost policy aimed at continuous cost improvement through a systemic and systematic approach The MCPD is a methodology that improves the production flow driven by the need for Manufacturing Cost Improvement MCI for both existing and future products through setting targets and means to continuously improve production process productivity for each product family cost The MDC developed by Shigeyasu Sakamoto design the effective manufacturing methods using a tool of engineering steps identifying ideas for increasing productivity called KAIZENSHIRO improvable value as a target The MDC results on production methods lead to effectiveness of work measurement for performance P and to knowledge and improvement of production control and planning as utilization U in order to achieve labor target costs The combination of MCPD and MDC methodologies can provide a unique approach for the managers who are seeking new ways for increasing productivity and profitability to increase the competitive level of their manufacturing company Model-Driven Software Migration: A Methodology Christian Wagner, 2014-03-10 Today reliable software systems are the basis of any business or company The continuous further development of those systems is the central component in software evolution It requires a huge amount of time man power as well as financial resources The

challenges are size seniority and heterogeneity of those software systems Christian Wagner addresses software evolution the inherent problems and uncertainties in the process He presents a model driven method which leads to a synchronization between source code and design As a result the model layer will be the central part in further evolution and source code becomes a by product For the first time a model driven procedure for maintenance and migration of software systems is described The procedure is composed of a model driven reengineering and a model driven migration phase The application and effectiveness of the procedure are confirmed with a reference implementation applied to four exemplary systems

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