I would like to study Model Driven Development

**Experiences in Large-Scale, Component Based, Model-Driven Software Development**

Year: 2007

abstract: Over the past 5 years, the Subscriber Software group of the Motorola Networks and Enterprise division has been engaged in establishing a Model-Driven software development approach to allow the efficient creation of quality software to be used in a variety of different product lines produced. Historically, this division has operated internally as three independent product groups, with each group producing a new product line every 2 to 3 years. In addition, each product line may contain 10-20 product variants, often distinguished through software with an expected lifetime of a particular product to exceed 10 years. A clear challenge for the division was to cope with the ever increasing rate of change in technology, the growing number of active product lines, accelerating the introduction of new product lines to meet customer demands, while simultaneously maintaining the current workforce size. This paper seeks to capture the experiences over these past 5 years, covering the challenges encountered in deploying this approach to a global workforce, redefining the organizational boundary lines, and overcoming the difficulties in meeting both short term product centric development time constraints while balancing a longer term strategic objective. In particular, the paper will focus on aspects on Model-drivendevelopment that are critical to large scale deployment, such as model(s) organization, distribution and control, in addition to component creation and management and quality aspects of multi-product linesoftware. In addition, the paper will address the importance of formal architectures and design as applied to this approach... The paper concludes with the establishment of a cohesive environment for large-scale component based model-driven software development, with an emphasis on minimizing the overhead associated with artifact management, while maximizing consistency across the entire environment.

**Adapting Software Development Process towards the Model Driven Architecture**

year: 2008

abstract: Model driven architecture (MDA) is increasingly gaining the attention of both research communities and industry. MDA is a model-oriented software development paradigm, which can be applied to anysoftware development methodology. MDA gives no guidelines in terms of the processes such as activities and phases, roles and responsibilities that are involved in the software development process. When an organization considers applying MDA-based software development process, it will face the lack of methodological guidelines. The aim of this paper is to customize typical heavyweight softwaredevelopment methodology (based on most widely used methodologies - rational unified process and Microsoft solutions framework) according to the MDA software development framework.

**Pragmatic model-driven software development from the viewpoint of a programmer: Teaching experience**

year: 2014

abstract:Model-driven software development is surrounded by numerous myths and misunderstandings that hamper its adoption. We have designed our course of model-driven development approach with the goal to introduce it from the viewpoint of a programmer as a pragmatic tool for solving concrete problems in development process. The course covers several techniques and principles of model-driven development instead of concentrating on a single tool. To explain these techniques we use a case-study that is iteratively developed by the students during the course. In the paper we explain the structure of our case study, contents of individual iterations, and our overall experience with this approach.