## BOOK REVIEW Model-Driven Software Engineering in Practice Marco Brambilla, Jordi Cabot, Manuel Wimmer. Morgan Claypool, 2012

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Model based software development differs from the conventional software development process and used in conjunction with a range of agile techniques. Despite improvements in third generation programming languages and runtime platforms, the levels of abstraction at which PLAs are developed today remains low-level relative to the concepts and concerns within the application domains themselves, such as manually tracking the library dependency or ensuring component composition syntactical and semantic correctness. [1] A promising means to address this problem involves developing PLAs using *model-driven engineering* (MDE) [2] which involves systematic use of models as key design and implementation artifacts throughout the software lifecycle. Thus to induce the works on architectures and models, researchers have been working to create structured models. The literature in this area hence proliferates; where the current edition [3] tries to address some of the significant aspects.

This book is structured with 11 chapters written not much comprehensively, but with a focus on basic as well as practice aspects. The chapter one is the overview of the contents of the book followed by a chapter on principles of MDSE wherein the authors have presented a discussion on classification of models, models use in industry and the negative side of the MDSE. We wonder to see such a mixture of the different discussions in one chapter! The next chapter on use cases is quite interesting. The next chapter provides a view on Model Driven Architecture which is the core of the scope of the book. The modelling levels and mappings are described with the help of architecture briefly in this unit.

The next unit presents the basic considerations on the adoption of MDSE and how it can be merged with the software development approaches of many kinds. The chapter six deals with the modelling languages which provides many diagrams and a good amount of discussions on UML. The next chapter illustrates clearly how a new model can be derived and what constituents form together the new models.

Models are merged, aligned, refactored, refined and translated to get implemented in the model transformation. [4] The chapter on Model-to-Model Transformations illustrated the transformation languages. The next chapter is the continuation of the previous one which deals with Model to text transformation. The chapter ten deals with the management aspects of the model-driven software architectures. The last chapter provides a very brief summary of the book.

This book is written in lucid style with many illustrations and diagrams which would enable the readers to gain good understanding. The discussions given in the text are brief and call for more descriptions in the future works.

## References

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