Model-Driven Software Migration: A Methodology: Reengineering, Recovery And Modernization Of Legacy Systems
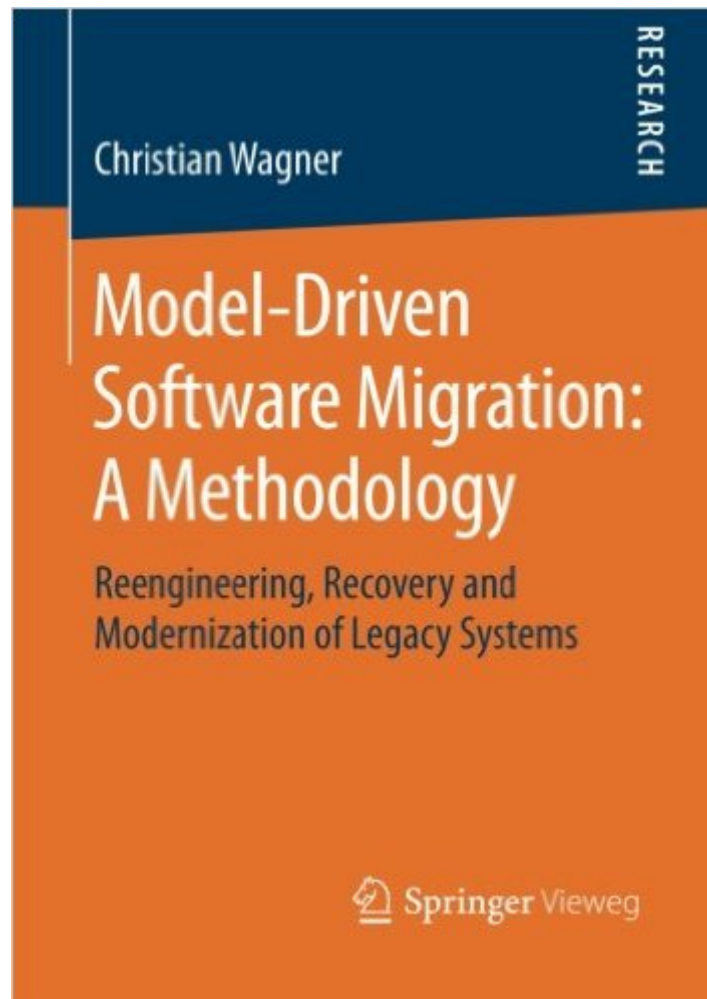
RESEARCH

Christian Wagner

Model-Driven Software Migration: A Methodology

Reengineering, Recovery and Modernization of Legacy Systems

Springer Vieweg

Synopsis

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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