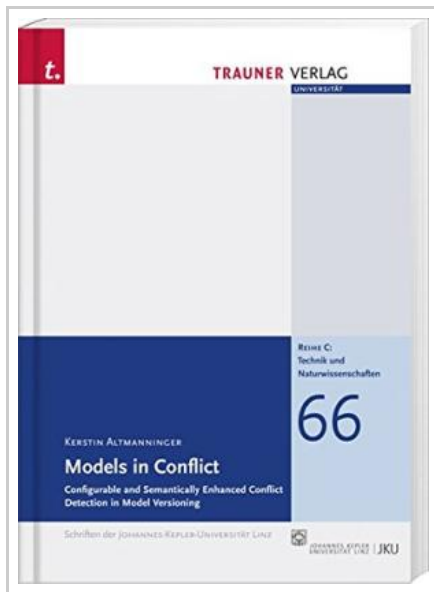



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Models in Conflict

By Kerstin Altmanninger

Trauner Verlag Dez 2011, 2011. Taschenbuch. Book Condition: Neu. 212x149x15 mm. Neuware - For almost four decades Version Control Systems (VCSs) have been an indispensable part for an effective software development process. VCSs store artifacts (such as files and directories) in a repository along with their evolution history. To support asynchronous collaboration between users, artifacts can be edited in parallel but the modifications must be combined into a single new version of the artifact by means of a three-way merge process. In this book, a series of open issues of state-of-the-art three-way merge approaches as part of VCSs are listed, and evaluated in terms of their supported features. Thus, concepts and techniques for a modeling environment independent, language independent, configurable, and semantically enhanced approach for effective conflict detection, in the course of a three-way merge process, is proposed. In order to validate the concepts and techniques proposed, a prototypical implementation is stated in terms of an Eclipse plugin. Finally, comparative evaluations to compare the output of the conflict detection report of the proposed approach with state-of-the-art approaches are given. 252 pp. Englisch.



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