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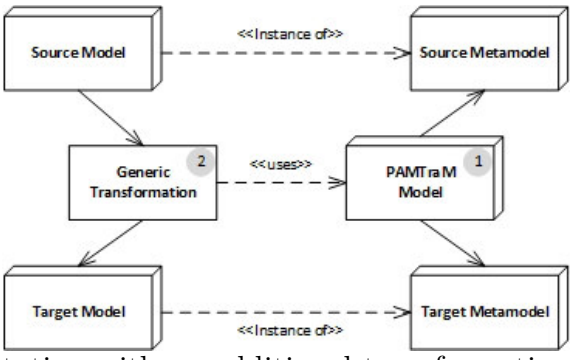
Validation of a generic transformation for modells of User Interfaces

In the model-driven development of User Interface,s models can be described abstract, without references to modalities (AUI) or concrete, with references to modalities (CUI). Thereby often comes the necessity to transform these models with different degrees of abstraction into each other. To be able to do so without the use of special programming languages and skills, there exists an implementation for the specification of a mapping model and the execution of a generic transformation: the PAMTraM.



To use it, a comlex mapping model for the description of mappings between any Source- and Targetmetamodel has to be described in a PAMTraM model (①). With that a generic transformation converts a Sourcemodel into a Targetmodel (②).
The objective of this work was to validate the existing implementation with an additional transformation from AUI to CUI. Therefore the transformation from the abstract W3C AUI language to the concrete modeling language Movisa was examined. For that the used Source language was analysed and suitable mapping possibilities were searched and implemented. Afterwards, the transformation could be validated with the use of generated sample models. During this process different enhancement possibilities and changes for the PAMTraM and the generic transformation were identified and presented.

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