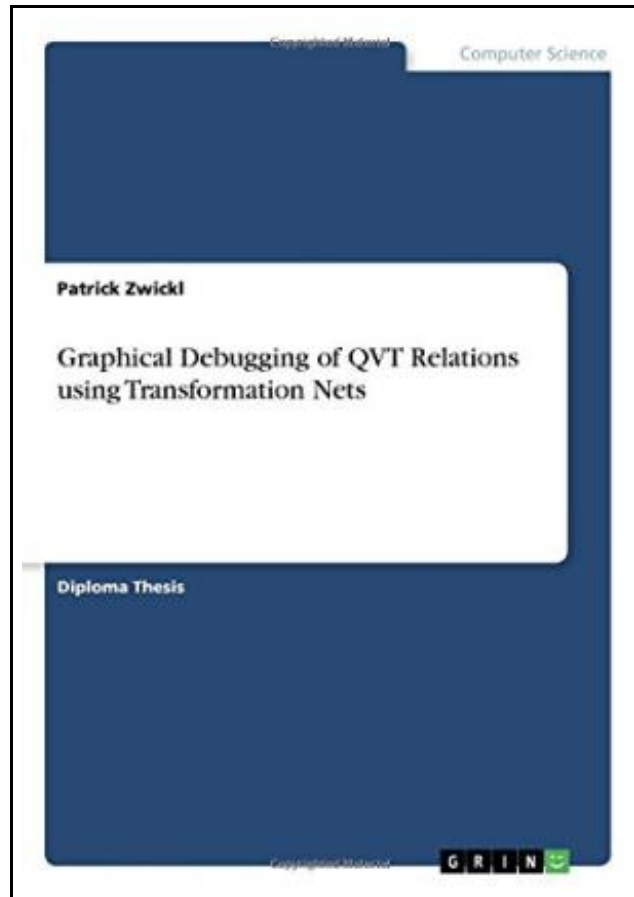# Graphical Debugging of Qvt Relations Using Transformation Nets

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Reviews

Complete guide! Its such a excellent read through. It is full of wisdom and knowledge I am very happy to inform you that here is the very best pdf i have got study inside my very own daily life and might be he very best pdf for possibly.

(Mr. Ronaldo Kulas)

GRAPHICAL DEBUGGING OF QVT RELATIONS USING TRANSFORMATION NETS

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GRIN Verlag. Paperback. Condition: New. 128 pages. Dimensions: 8.3in. x 5.8in. x 0.3in.Diploma Thesis from the year 2009 in the subject Computer Science - Commercial Information Technology, grade: 1, Vienna University of Technology (Institute of Software Technology and Interactive Systems), language: English, abstract: Model transformations (MT) play a key role in the Model Driven Engineering (MDE) paradigm, leading to the standardization of the QueryViewTransformation (QVT) model transformation language by the Object Management Group (OMG). Until now, however, this language did not attract the same interest as the Unified Modeling Language (UML), because of the lack of adequate debugging facilities which are necessary regarding the following three problem areas: First, declarative languages like QVT Relations (QVT-R) hides the operational semantics of transformations. Only the information provided by the interpreter, as well as the tendered inputs and returned outputs are available for tracking the progress of transformations. Furthermore, the ordering of transformation application is hidden by the MT engines providing only a black-boxes view to the users. This can lead to the problem of impedance mismatches between design and runtime. These characteristics of QVT-R are assets for developing, but are handicaps for debugging. Second, QVT-R code is specified on higher abstraction level than its execution and state-of-the-art debugging. This deteriorates the ability to deduce causes from produced results. Third, the information content responsible for operating MTs is spread over several artifacts including the input model, a resulting target model and the QVT-R code. As a consequence, the reasons for a particular outcome are hard to be derived from the involved artifacts. This severely harms the ease of debugging. Therefore, this master thesis tackles the mentioned problems by visualizing QVT-R as Transformations Nets, using the MT framework Transformations On Petri Nets In Color (TROPIC) based on Colored Petri Nets (CPN). This can be...

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