Model Driven Engineering (MDE) is gaining popularity as an alternative to the code-centric software development approach. Model Transformation (MT) is one of the main components of MDE. MT can be visualized as a program with models as inputs. Model evaluation and processing is automated by a Model Transformation tool. In this paper, we walk through the terminologies involved in MT and elaborate the benefits of MT with practical usage scenarios. The paper highlights the most recent challenges faced in the process to make model transformation more sophisticated. The intent of the paper is to portray a complete picture of model transformation in a way to relate the practical implementations with respect to the theoretical aspects of MT. The paper concludes by putting lights on some of the current trends in the field and the areas in model transformation where significant contribution is the needed.

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Index Terms

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