

## GRoundTram: A Toolkit for Bidirectional Model Transformations

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Model transformation plays an important role in model driven software development, and its bidirectionality is a key requirement to enable the source and target of the transformation to evolve in a consistent manner. However, there are few systems that can support constructing bidirectional model transformation in a compositional way (where temporal models can be freely used). In this talk, I would like to introduce GRoundTram, a new toolkit for systematic development of bidirectional model transformation in which modifications can be propagated across models both forwardly and backwardly to guarantee system consistency. The GRoundTram includes the automatic tools for model validation, model transformation checking, and bidirectionalization of model transformation, and a friendly interface for interactively executing bidirectional model transformation.

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