Paige, Richard F.

**Engineering bidirectional transformations.** (English) [Zbl 1476.68037]


Summary: Bidirectional transformations, like software, need to be carefully engineered in order to provide guarantees about their correctness, completeness, acceptability and usability. This paper summarises a collection of lectures pertaining to engineering bidirectional transformations using model-driven engineering techniques and technologies. It focuses on stages of a typical engineering lifecycle, starting with requirements and progressing to implementation and verification. It summarises model-driven engineering approaches to capturing requirements, architectures and designs for bidirectional transformations, and suggests an approach for verification as well. It concludes by describing some challenges for future research into engineering bidirectional transformations.

For the entire collection see [Zbl 1405.68010].

**MSC:**

68N01 General topics in the theory of software

**Full Text:** [DOI Link]