Technische Berichte

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Titel des Berichts: Implementing the Change of Data Structures with SPECTRUM in the Framework of KORSO Development Graphs
Abstract: Data structures are algebraically specified with abstract data types in the specification language SPECTRUM. Structures of specifications are depicted in the Development-Graphs like in the BMFT-Project: KORSO. These graphs contain refinement relations, which have to be proven. In this paper, a general method for changing data structures is demonstrated on the example of sets and sequences. The focus lays on proving the involved refinement relations with the theorem prover Isabelle. A simple method is given to support such proofs.
Stichworte: Algebraic Specification; Abstract Data Types; ADT; Implementation; Verification; SPECTRUM
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